

PAT-NO: JP361032790A
DOCUMENT-IDENTIFIER: JP 61032790 A
TITLE: THERMAL RECORDING MATERIAL
PUBN-DATE: February 15, 1986

INVENTOR-INFORMATION:

NAME

OTAKI, KAZUMI

SAKAI, HISASHI

MARUTA, KEIICHI

ASSIGNEE-INFORMATION:

NAME

RICOH CO LTD

COUNTRY

N/A

APPL-NO: JP59156199

APPL-DATE: July 25, 1984

INT-CL (IPC): B41M005/18

ABSTRACT:

PURPOSE: To provide the titled material having excellent reliability in the water resistance and chemical resistance of an image, suitable for high speed recording and having high sensitivity, constituted by containing a zirconium compound in the water soluble polymer protective layer provided on a thermal color forming layer.

CONSTITUTION: In a thermal recording material wherein a thermal color forming layer containing a leuco dye (e.g., 3-N-ethyl-N-acylamino-6-methyl-7-anilino-fluorane) and a coupler (e.g.,

bisphenol A) is provided on a support such as high grade paper and a water soluble polymer protective layer is provided on said color forming layer, a

zirconium compound [e.g., $\text{Na}_2\text{ZrSiO}_5$, $\text{ZrOCl}_2 \cdot 8\text{H}_2\text{O}$, $\text{ZrOSO}_4 \cdot n\text{H}_2\text{O}$, $\text{ZrO}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$, $\text{ZrO}(\text{CO}_3)_2 \cdot n\text{H}_2\text{O}$, $\text{ZrO}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ or $\text{ZrO}(\text{C}_2\text{H}_3\text{O})_2$, $(\text{NH}_4)_2\text{ZrO}(\text{CO}_3)_2$] is contained in said protective layer.

COPYRIGHT: (C)1986, JPO&Japio